Contents

Preface ix
List of participants x

1. Aquaculture
The growth rate and growth efficiency of *Streptocephalus macrourus* (Crustacea, Anostraca) cultured on microalgae
by S. A. Mitchell 1
Culturing artemia (Tuticorin strain) in organic and agricultural wastes at different salinities
by J. A. Basil & G. T. Pandian 11
A rapid, non-stressing technique for measuring growth in Anostraca and other delicate, medium-sized aquatic invertebrates
by C. De Walsche & H. J. Dumont 19
Observations on temperature optimum, cyst production, and survival of *Streptocephalus proboscideus* (Frauenfeld, 1873) (Crustacea: Anostraca), fed different diets
by C. De Walsche, J. Mertens & H. J. Dumont 21
A model for growth of *Artemia franciscana* cultures based on food ration-dependent gross growth efficiencies
by F. A. Abreu-Grobois, R. Briseño-Dueñas, M. A. Herrera & M. L. Malagón 27

2. Ecology
Some aspects of *Artemia* biology affected by cestode parasitism
by F. Amat, A. Gozalbo, J. C. Navarro, F. Hontoria & I. Varó 39
Life history and interspecies relationships of *Chirocephalus diaphanus* Prévost and *Tanymastix stagnalis* (L.), (Crustacea, Anostraca) inhabiting a group of mountain ponds in Latium, Italy
by G. Mura 45
Influence of temperature on hatching of eggs of *Lepidurus couesii* (Crustacea, Notostraca)
by B. J. Hann & B. Lonsberry 61
Indirect effects of the fairy shrimp, *Branchipus schaefferi* and two ostracod species on *Bacillus thuringiensis* var *Israelensis*-induced mortality in mosquito larvae
by L. Blaustein & J. Margalit 67
The biology of *Tanymastix stagnalis* (L.) and its survival in large and small temporary water bodies in Ireland
by J. N. R. Grainger 77
Why only one of two common Central Texas Anostraca atop Enchanced Rock?
by D. Belk 83
Natural growth and reproduction in *Triops granarius* (Lucas) (Crustacea: Notostraca)
by M. T. Seaman, D. J. Kok, B. J. von Schlichting & A. J. Kruger 87
Physical and chemical characteristics and phyllopod fauna of temporary pools in north-eastern Natal, Republic of South Africa
by M. L. Hamer & C. C. Appleton 95

Life history adaptations of phyllopods in response to predators, vegetation, and habitat duration in north-eastern Natal
by M. L. Hamer & C. C. Appleton 105
Multispecies coexistence of branchiopods (Anostraca, Notostraca & Spinicaudata) in temporary ponds of Chaouia plain (western Morocco): sympatry or syntopy between usually allopatric species
by A. Thiéry 117
Factors affecting contributions of the tadpole shrimp, *Lepidurus packardi*, to its oversummering egg reserves
by J. S. B. Ahl 137
Uptake of lead, cadmium and zinc by the fairy shrimp, *Branchinecta longiantenna* (Crustacea: Anostraca)
by A. Mizutani, E. Ifune, A. Zanella & C. Eriksen 145

3. Genetics
Genetic characterization and intra-generic relationships of *Artemia monica* Verrill and *A. urmiana* Günther
by F. A. Abreu-Grobois & J. A. Beardmore 151
Sex ratio variation in female-biased populations of Notostracans
by C. Sassaman 169
Characterizing bisexual *Artemia* populations by isoelectric focusing
by J. C. Navarro, F. Hontoria, I. Varó & F. Amat 181

4. Morphology
The filtration apparatus of Anostraca (Crustacea): species-specific setulation in the genus *Streptocephalus*
by J. Mertens, N. Munuswamy, C. De Walsche & H. J. Dumont 187
Structural differences between the cyst walls of *Streptocephalus dichotomus* (Baird), *S. torvicornis* (Waga), and *Thamnocephalus platyurus* (Packard) (Crustacea: Anostraca), and a comparison with other genera and species
by C. De Walsche, N. Munuswamy & H. J. Dumont 195

5. Taxonomy and geographic distribution
Distribution and morphological variation of *Streptocephalus torvicornis* (Waga, 1842) in Northern Africa
by H. J. Dumont, C. De Walsche & J. Mertens 203
Distribution of species of Anostraca, Notostraca, Spinicaudata, and Laevicaudata in Mexico
by A. M. Maeda-Martinez 209
Branchipus cortesi n.sp.: a new anostracan from western Spain (Crustacea: Branchiopoda)
by M. Alonso & D. Jaume 221
A note on the genus *Artemia* in Algeria
by A. Zemmouri 231
The geographical distribution of *Triops australiensis* (Crustacea: Notostraca) in Australia: a biogeoclimatic analysis
by W. D. Williams & J. R. Busby 235
Branchiopods (non-cladocerans) of the Maltese Islands (central Mediterranean)
by S. Lanfranco, C. De Walsche, P. Schembri & J. Mertens 241

Resting eggs of Anostraca, Notostraca and Spinicaudata (Crustacea, Branchiopoda) occurring in France: identification and taxonomical value
by A. Thiéry & C. Gasc 245
The fairy shrimp *Chirocephalus brevipalpis* (Orghidan, 1953), (Crustacea: Anostraca) in Yugoslavia
by S. T. Petkovski 261
On the Anostraca (Crustacea) of Yugoslavia
by B. Petrov & A. Marinček 267
A review of the Conchostraca (Crustacea) of Yugoslavia
by A. Marinček & B. Petrov 273

Index 283